3(0)

AUTHORS: Dyufur, M. S., Dronov, V. I., Kushlin, B. K. SOV/20-123-3-40/54

TITLE: The Triassic Stratigraphy of Southeastern Pamir (K stratigrafii triasa Yugo-Vostochnogo Pamira)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 3, pp [illegible] (USSR)

ABSTRACT: The Pamirskaya ekspeditsiya Tadzhikskogo geologicheskogo upravleniya (Pamir Expedition of the Tajik Geological Administration) carried out geological work in southeastern Pamir during recent years. Two parties have collected numerous pelecypods from the gravel-containing, limy suite of the Trias. These two parties were: a. for geological mapping (Muskol'skaya: Sh. Sh. Danibayev and others, [illegible]), b. for stratigraphy (Badakhshanskaya: M. S. Dyufur, 1956). According to L. D. Kiparisova these pelecypods belong to the Ladinian Stage of the Middle Trias. Based on studies of several Triassic sections, M. S. Dyufur concluded that there was no interruption in sedimentation at the Permian-Triassic boundary. In 1957 V. I. Dronov and B. K. Kushlin of the Badakhshanskaya party studied the Triassic sections. They have proved by means

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The Triassic Stratigraphy of Southeastern Pamir SOV/20-123-3-40/54

of fauna that the lower horizons of the gravel-containing, limy suite are Lower and Middle Triassic and divided this suite into 5 packages. The Triassic sediments can be clearly divided into 2 suites according to their lithologic composition. The following classification is proposed by the authors: 1. Kobrigenskaya (gravel-containing, limy suite) suite, and 2. Istykskaya (Ref 4) sandstone-shale suite. According to the fauna found, the Kobrigenskaya suite embraces sediments from the Lower Triassic up to the Carnian Stage, incl. Its thickness varies between 45 and 170 m. (Footnote: The thick suite of Triassic limestones described by P. D. Vinogradov in Aktash might be separated independently). The Istykskaya suite overlies this suite entirely concordantly. A fauna was found only in the lower part of the Istykskaya suite. This fauna indicates that the earliest beds belong at least to the uppermost parts of the Carnian Stage, if not already to the Upper Triassic Noric Stage. The Istykskaya suite includes the Noric and Rhaetian Stages of the Upper Trias , since numerous floristic remains, chiefly of Rhaetian age, were found in the upper part of the Istykskaya suite in Pamir (Ref 4). As a result, it is possible that the very uppermost parts of this suite belong to the Lias.

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The Istykskaya suite is overlaid by thick sandstones and conglomerates of the Lias and also by Middle and Upper Jurassic sediments. The thickness of the Istykskaya suite is 600-1000 m and attains 1500 m in the Bazar-Dara Chair. The difference in the thicknesses of both suites is striking and leads to the supposition of an interruption in sedimentation during the Trias. The same phenomenon is known in the Himalayas. Although the small thickness of Lower and Middle Triassic sediments indicates a marked retardation of submergence in southeastern Pamir at this time (apparently for the entire central Asiatic branch of Tetis) the marine conditions were not interrupted. There are 6 references, 5 of which are Soviet.

ASSOCIATION: Upravleniye geologii i okhrany nedr pri Sovete Ministrov Tadzhikskoy SSR (Administration for Geology and the Preservation of Mineral Wealth of the Council of Ministers of Tadzhikskaya SSR) Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov)

PRESENTED: June 28, 1958, by D. V. Nalivkin, Academician

SUBMITTED: June 26, 1958

Card 3/3

KUSHLIN, B.K.

New data on the age of the Istykskaya and Chechekty series. Sov. geol. 2 no.12:124-126 D '59. (MIRA 13:5)

1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov Tadzhikskoy SSR. Pamirskaya ekspeditsiya.
(Pamirs--Geology, Stratigraphic)

KUSHLIN, B.K.

Straight Triassic Ammonoidea from the Pamirs. Paleont. zhur. no.3:139-141 '65. (MIRA 18:9)

1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov Tadzhikskoy SSR.

KUSHLIN, T.V.

Finishing chrome calfskin. Leg.prom. 16 no.2:42-43 F '56.
(Leather industry) (MLRA 9:7)

KUSHLIN, T.V.

Use highly productive equipment and improve production technology.
Kozh.-obuv.prom. no.2:6-7 F '59. (MIRA 12:6)
(Shoe manufacture)

KUSHLIN, T.V.; FEDULOV, I.I.

Organization of flawless production in the Kuznetsk Shoe Factory.
Kozh.-obuv. prom. 7 no. 10:24-27 O '65 (MIRA 19:1)

1. Direktor Kuznetskoy obuvnoy fabriki (for Kushlin). 2. Glavnyy inzhener Kuznetskoy obuvnoy fabriki (for Fedulov).

SHMUSHKOVICH, Ye., inzh.; KUSHLIN, V., inzh.

Turn out items meeting higher standards. Rech. transp. 24 no.8:26-28 '65. (MIRA 18:9)

1. Moskovskiy sudostroitel'no-sudoremontnyy zavod.

VEDENEYEV, Nikolay Petrovich; KUSHLYAN, Rafail Yakovlevich;
VEROMAN, V.Yu., red.; ALABYSHEVA, N.A., red.izd-va;
GVIRTS, V.L., tekhn. red.

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(MIRA 17:4)

TAYTS, Ye.M., doktor tekhn. nauk; SHVARTS, S.A., kand. tekhn. nauk[deceased]; PEYSAKHZON, I.B., inzh.; GEL'FER, M.L., inzh.; DMITRIYENKO, M.T., inzh.; DORFMAN, G.A., inzh.; IZRAELIT, Ye.M., inzh.; KULAKOV, N.K., inzh.; KUSHLYANSKIY, B.S., inzh.; MEYKSON, L.V., inzh.[deceased]; LEONOV, A.S., inzh.; SHVARTS, G.A., inzh.; SHVARTSMAN, I.Ya., inzh.; YATSENKO, N.Ya., inzh.; BABIN, P.P., inzh.; KHANIN, I.M., doktor tekhn. nauk, prof., red.; KOZYREV, V.P., inzh., red.; KUPERMAN, P.I., inzh., red.; LGALOV, K.I., inzh., red.; LEYTES, V.A., inzh., red.; LERNER, B.Z., inzh.,red.; POTAPOV, A.G., inzh., red.; SHELKOV, A.K., red.

[By-product coke industry worker's handbook in six volumes] Spravochnik koksokhimika v shesti tomakh. Moskva, Metallurgiia. Vol.2. 1965. 288 p. (MIRA 18:8)

Kushman G. T.

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics,
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35. N. M. Borodachev (Kuibyshev): On the solution of the dynamic contact problem for a half-space under conditions of axial symmetry.

36. J. Brilla (Bratislava). Anisotropic plates with discontinuous supports.

37. M. M. Brude (Moscow): On the essential non-linearity of certain problems on column stability.

38. N. A. Bugay (Kiev), S. V. Serensen (Moscow): On the determination of safety factors under alternating random loads.

39. A. I. Burlakov (Khar'kov): An experimental investigation of creep of turbine diaphragm models.

40. K. F. Burul'skiy (Saratov): On the stability of constructionally anisotropic circular ring plates.

41. Mt. Balan, I. Petcu, S. Rautu (Bucharest): The field of application of stereoplasticity.

42. D. V. Vainberg (Kiev): The state of stress of lamellar systems of regular configuration.

43. V. V. Vainshtok (Moscow): Thixotropic properties of lubricants on basis of their rheological characteristics.

44. G. A. Van-Fo-Fi, O. M. Agrin (Kiev): Application of Mathieu functions to the investigation of shells.

45. P. M. Varvak (Kiev): Determination of stresses and deformations in massive bodies.

46. R. I. Vedeneyev (Baku): The flow of bitumens and filled bitumens in pipes.

47. I. N. Vekua, V. I. Mzhavanadze (Tbilisi): Applications of analytic functions in the theory of elasticity.

48. L. Ya. Ziner (Tbilisi), V. V. Pinadzhian (Yerevan): Experimental investigation of the behavior of eccentrically compressed short columns for long loading times.

49. G. V. Vinogradov (Moscow), A. A. Ponomarev (Kazan), V. P. Pavlov (Moscow): Investigation of soft plastic bodies under combined states of stress.

50. G. V. Vinogradov, V. P. Pavlov (Moscow): Basic peculiarities of the mechanical properties of plastic lubricants.

51. A. I. Fischer (Leningrad): Fundamentals of the linear theory of visco-elastic impact.

52. L. I. Vlasenko (Khar'kov): The solution of dynamic contact problems for foundations using a simplified model.

53. B. F. Vlasov (Moscow): On the equilibrium equations of thick elastic plates.

54. S. P. Vvedenskii (Yakutsk): The creep of ice and frozen soils under combined stresses.

55. M. P. Volarovich, G. Ia. Vorontsov, R. P. Kovalevskii, G. I. Kushman (Moscow): Studies of viscoelastic properties of porous bodies (e.g. peat) by the ultrasonic pulse method.

56. M. P. Volarovich (Moscow), A. Kh. Kim (Minsk): The plane flow of a visco-plastic medium between two planes forming an acute angle.

57. M. P. Volarovich, L. V. Oparin (Moscow): Kinematics and dynamics of the flow of visco-plastic dispersed media past bodies of different shapes.

58. A. N. Volkov (Moscow): On the analysis of a short closed cylindrical shell.

59. S. D. Volkov, E. A. Klimushkin (Sverdlovsk): On the distribution of elastic constants in quasi-isotropic polycrystalline media.

60. I. I. Vorovich (Rostov-na-Donu): A statistical method in the stability theory of shells.

61. L. I. Vorovich (Rostov-na-Donu), A. S. Kosmodamianskii (Saratov): On stress concentration in a plane with an infinite number of holes.

62. A. P. Vlasovskii (Leningrad): Foundations of the general engineering theory of elastic beams.

63. S. S. Vyalov (Moscow): The laws of deformation of ice.

64. S. S. Vyalov (Moscow): The laws of motion of ice crusts and the theory of visco-plastic flow based on research in the Antarctic.

65. M. R. Galileev (Leningrad): A method of obtaining polynomial stress and displacement functions.

66. K. Z. Galimov (Kazan): A contribution to the theory of the finite deformations of thin shells.

67. M. P. Galin (Moscow): The propagation of elastic-plastic bending and shear waves in the axisymmetrical deformations of shells.

KUSHNAROV, I. V.

"Investigation of the Modulation Method for Measuring Electric Fluctuations." Thesis for degree of Cand. Technical Sci. Sub 27 Apr 50, Moscow Electric Engineering Inst of Communications.

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva. Jan-Dec 1950

KUSHMANOV, I., kandidat tekhnicheskikh nauk.

[redacted]

Phase inverter circuits for low frequency amplifiers. Radio
no.1:24-27 Ja '55. (MLRA 8:3)
(Amplifiers, Electron-tube)

KUSHMANOV, I., kandidat tekhnicheskikh nauk

Design calculations for input and output transformers for radio receivers and amplifiers. Radio no.6:(Insert) Je '55.
(Radio--Transformers) (MLRA 8:8)

1486. CALCULATION OF [illegible] CORRECTORS FOR VIDEO AMPLIFIERS. I.V. [illegible]

Radiotekhnika, Vol 10, No 2, 65-75 (1955). In [illegible]

— A general survey of [illegible] and [illegible] (amplitude and phase [illegible] resistors and condensers [illegible]. The [illegible] coupling network in the screen grid [illegible]

KUSHMANOV, I.V., dotsent

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(Bibliography—Electronics)

KUSHMANOV, N.

USSR/ Electronics - Low-frequency amplifiers

Card Pub. 89 - 12/27

Authors	:	Kushmanov, N., Candidate of Technical Sciences
Title	:	Phase-inversion circuits in low-frequency amplifiers
Periodical	:	Radio 1, 24-27, Jan 1955
Abstract	:	An analysis of phase inversion circuits used in low-frequency amplifiers is given. The amplifiers are two-stage cascade amplifiers. Sample calculations of a cascade are presented. Circuit diagrams.
Institution	:	....
Submitted	:	....

KUSHMANOVA, O.D.

Change in the amount of some mineral elements in rabbits' muscles following temporary loosening of a tourniquet. Uch. zap. 2-go MGMI 17:127-130 '58. (MIRA 13:7)

(BLOOD--CIRCULATION, DISORDERS OF)
(MINERALS IN THE BODY) (MUSCLE)

KUSHMANOVA, O.D.; KHOVANSKAYA, M.G.; SHUL'GA, V.A.

Modified content of ascorbic acid in the adrenal glands in rats during the development of tourniquet shock in the presence of various physiological states of the central nervous system. Pat. fiziol. i eksp. terap. 8 no.4:64-65 Jl-Ag '64. (MIRA 18:2)

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GORODNICHEV, V.M., kand. tekhn. nauk; ANDREYEV, V.Ye.; KLADOV,
G.M.; KUSHMET, V.G.; MELIKSETOV, S.S., retsenzent;
NOVIKOV, N.I., retsenzent;

[Construction of buildings and other structures for coal mines] Stroitel'stvo zdanii i sooruzhenii ugol'nykh shakht. Moskva, Nedra, 1964. 207 p. (MIRA 18:7)

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2. USSR (600)

4. Stomach

7. Secretory and excretory function of the stomach in certain organic diseases of the brain, Klin. med., 30, No. 11, 1952.

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BASKAKOV, M.P., doktor geol.-miner. nauk, red.; SADYKOV, [illegible] A., red.; ISKANDAROV, E., red.; KUSHMURADOV, G., red. REZNIKOVA, F., red.; LYUBETSKAYA, I., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Problems of the geology of Central Asia and Kazakhstan] Voprosy geologii Srednei Azii i Kazakhstana. Tashkent. Izd-vo AN UzSSR, 1963. 148 p. (MIRA 16:12)

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(Soviet Central Asia--Geology) (Kazakhstan--Geology)

Kushmuradov, Yu. K.

3

Alkaloids of the C_{15} series. I. Sophocarpinols. A. S. Sadykov, O. S. Otroshchenko, and Yu. K. Kushmuradov (Central Asia State Univ., Tashkent). Zhur. Obshchei Khim. 26, 2665-8(1956); cf. Proskurnina and Kuzovkov, C.A. 48, 11428b; Winterfeld, et al., C.A. 44, [illegible]. Crude bases from *Sophora* were fractionated yielding pachycarpine, b$_4$ 160-70°, sophocarpine (I), b$_4$ 170-210°, and a residue of crude sophoramine. I and PhMgBr gave phenylsophocarpinol (II), $C_{21}H_{28}N_2O$, m. 99°; *mono-HI salt*, m. 150-1°; *mono-HCl salt*, m. 175-6°; *picrate*, m. 97-8°. II and AcCl gave the *O-acetyl deriv.·HCl*, m. 265-6°. I and EtMgI gave *ethylsophocarpinol*, m. 98-9°. *HI salt*, m. 309-10°; *HCl salt*, very hygroscopic solid; *picrate*, m. 224-5°. The HI salts, listed above, were isolated by treatment of the solns. of the bases with NH_4I. G. M. K.

SADYKOV, A.S.; KUSHMURADOV, Yu.K.

Alkaloids of the C_{15} series. Part 8: Separation of alkaloids of Sophora pachycarpa. Zhur.ob.khim. 32 no.4:1345-1349 Ap '62. (MIRA 15:4)

1. Tashkentskiy gosudarstvennyy universitet imeni V.I.Lenina.
(Alkaloids) (Sophora)

KUSHMURADOV, Yu.K.; SADYKOV, A.S.

Alkaloids of the C_{15} series. Part 9: Structure of isosophoramine. Zhur.ob.khim. 32 no.5:1699-1703 My '62. (MIRA 15:5)

1. Tashkentskiy gosudarstvennyy universitet imeni V.I.Lenina.
(Sophoramine)

SADYKOV, A.S., akademik; KUSHMURADOV, Yu.K.; ASLANOV, Kh.A.

Structure of isosophoramine. Dokl.AN SSSR 145 no.4:829-830 Ag '62. (MIRA 15:7)

1. Tashkentskiy gosudarstvennyy universitet im. V.I.Lenina.
2. AN Uzbekskoy SSR (for Sadykov).
(Sophoramine)

KUSHMURADOV, Yu.K.; SADYKOV, A.S.; ASLANOV, Kh.A.

Alkaloids of the C_{15} series. Part 13: Structure of isosophoramine. Zhur. ob. khim. 33 no.5:1683-1685 My '63.
(MIRA 16:6)

1. Tashkentskiy gosudarstvennyy universitet imeni V.I. Lenina.
(Sophoramine)

KUSHNAR', L. V.

Upper Paleozoic Pelecypods in southern Fergana and their stratigraphic importance. Vest. LGU 14 no.24:69-75 '59. (MIRA 12:12)
(Fergana--Lamellibranchiata, Fossil)

KUSHNAR', L.V.; MIKLUKHO-MAKLAY, A.D.; PORSHNYAKOVA, Ya.F.; YAGOVKIN, A.V.

Recent stratigraphic data on the lower Carboniferous of southern Fergana. Dokl. AN SSSR 140 no.3:673-676 S '61. (MIRA 14:9)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova. Predstavleno akademikom D.I.Shcherbakovym.
(Fergana--Geogogy, Stratigraphic)

KUSHNAR', L.V.

Some Aviculopectinidae from Carboniferous sediments in southern Fergana. Vest. LGU 18 no.18:36-45 '63. (MIRA 16:11)

KUSHNAR, M.M.

Method for preparation of pure barium alkalies. Zhur.prikl.khim. 30 no.7:1115-1116 Jl '57. (MIRA 10:10)
(Barium compounds)

KOTSYUMAKHA, P.A.; KUSHNAR, Ya.I.; PERELYGIN, A.V.

Temperature dependence of electroconductivitu and the Hall effect in copper oxide. Izv. AN SSSR. Ser. fiz. 28 no.8: 1326-1330 Ag '64 (MIRA 17:8)

KUSHNARENKO, A., inzh.; CHERNYKH, V., inzh.

Difficulties that can be overcome. Grazhd. av. 19 no.4:25 Ap '62. (MIRA 15:5)

(Airports--Equipment and supplies)

KUSHNARENKO, G.D., inzh.

Mechanical feeder used for raw cotton. Tekst. prom. 18 no.9:11-13 S '58. (MIRA 11:10)

(Cotton machinery)

[illegible], G.D., Cand Tech Sci -- (diss) "Mechanical feeder for feeding ~~the supply of~~ cotton raw material into the tubelines ~~pipe-line~~ of conveyer ~~[illegible]~~ pneumatic devices ~~installation~~ of cotton plants." Tashkent, 1959. 16 pp (Min of Higher Education UzSSR. Tashkent Textile Inst), 150 copies (KL,30-59, 120)

KRUGLOV, B.I. [Kruhlov, B.I.]; SOPOVA, Z.V.; KUSHNARENKO, G.I.
[Kushnarenko, H.I.]

Ferromolybdenum catalysts for the oxidation of methanol in formaldehyde. Khim. prom. [Ukr.] no.3:3-8 Jl-S '63.
(MIRA 17:8)

ATROSHCHENKO, V.I.; KUSHNARENKO, I.P.

Kinetics of the contact oxidation of methyl alcohol to formaldehyde on a silver catalyst. Izv.vys.ucheb.zav.;khim.i khim.tekh. 6 no.5:774-780 '63. (MIRA 16:12)

1. Khar'kovskiy politekhnicheskiy institut imeni V.I.Lenina, kafedra tekhnologii neorganicheskikh veshchestv.

KUSHNARENKO, I.P.; ATROSHCHENKO, V.I.

Contact oxidation kinetics of methanol to formaldehyde on a silver catalyst under pressure. Izv. vys. ucheb. zav.; khim. i khim. tekh. 8 no.1:47-54 '65. (MIRA 18:6)

1. Khar'kovskiy politekhnicheskiy institut imeni Lenina, kafedra tekhnologii neorganicheskikh veshchestv.

L 41060-65 EWG(j)/EWA(h)/EWP(j)/EWT(m)/T/EWA(1) Pc-4/Peb RM
ACCESSION NR: AP5007138 S/0303/65/000/001/0006/0011 34 32

AUTHOR: Chel'tsova, M.S.; Bogatyrev, P.M.; Kushnarenko, N.A. 16 B

TITLE: Effect of some aluminum chelates on the resistance of alkyd coatings to ultraviolet radiation

SOURCE: Lakokrasochnyye materialy i ikh primeneniye, no. 1, 1965, 6-11

TOPIC TAGS: alkyd resin, alkyd coating, aluminum chelate, polymer radiation resistance, ultraviolet radiation, acetoacetic ester, salicylic acid, dihydroxybenzophenone, glyphthalic resin, pentaphthalic resin, polymer oxidation

ABSTRACT: The authors studied the strengthening effect of Al-monochelates with acetoacetic ester (1), salicylic acid (2), 2, 4-dihydroxybenzophenone (3) and the phenyl ester of salicylic acid (4), as well as of mixed Al-bichelates with acetoacetic ester and salicylic acid (5), and with acetoacetic ester and 2,4-dihydroxybenzophenone (6), on the UV resistance of FL-50 glyphthalic and pentaphthalic resin films with linseed oil additions. The chelates (see Fig. 1 of the Enclosure) were prepared by the addition of the corresponding chelatophores to solid aluminum isobutylate (7) with subsequent partial distillation of the liberated isobutyl alcohol and solvent at bath temperatures up to 140-160C. The peroxide numbers of the blends indicating the content of active oxygen, and the copper numbers,

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ACCESSION NR: AP5007138

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characterizing the ability to form complex compounds, were determined by Bogatyrev's and Sedlacek's methods, respectively, as the principal characteristics of the oxidation mechanism in film formation. The chelates were found to blend well with alkyd resins containing linseed oil without affecting film drying, and to increase the UV resistance of naturally and forcibly aged coatings. A suggestion is made that the protective action is linked with the absorption of UV rays by the chelates and with the interaction of AL with the oxidation products of oil-containing alkyd resins. "R. V. Anokhina and G. V. Rudnaya assisted in the experiments." Orig. art. has: 7 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 01 SUB CODE: MT

NO REF SOV: 008 OTHER: 018

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KONONENKO, V., kand.tekhn.nauk, izobretatel' (Khar'kov); KOTEL'NIKOV, V., inzh.
(Khar'kov); ZAYTSEV, K., inzh. (Khar'kov); KUSHNARENKO, S., inzh.
(Khar'kov)

Controlled explosion. Izobr.i rats. no.12:4-6 D '62. (MIRA 15:12)
(Explosions)

22984

S/182/61/000/007/002/006
D038/D113

1.1400

AUTHORS: Kononenko, V.G., Kushnarenko, S.G., Chizhov, V.G.

TITLE: Research into the plasticity of structural materials at high deformation speeds

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 7, 1961, 4-6

TEXT: Because of the lack of information on the plasticity of different alloys at high speeds of hot deformation and the resultant lack of forging machines with a tool speed of more than 8 m/sec, investigations were conducted on the plasticity of metal during hot deformation at impact speeds of up to 150 m/sec. Specimens 20 mm in diam and 30 mm long from the 45, 30ХГСА (30KhGSA), 25, 2Х13 (2Kh13) and 1Х18Н9Т (1Kh18N9T) steels, the ВТ3-1 (VT3-1) Ti-alloy, the АМг-3 (AMg-3), АМг-7 (AMg-7), АМг-6 (AMg-6) and АК-8 (AK-8) Al-alloys, and the ЭИ827 (EI827) low-plasticity, heat-resistant alloy were tested under a single-stroke gunpowder pile driver designed by the Khar'kovskiy aviatsionnyy institut (Khar'kov Aviation Institute). The investigations were aimed at finding the limit of deformation in the upsetting of specimens and at determining the features of hot deformation during fast forging. The

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D038/D113

Research into the plasticity .....

forging tool was driven by the explosion of ordinary gunpowder placed in a chamber. The metal malleability was determined by a special die with an intricate impression which, as a rule, is not filled with metal in hammer forging. The die punch was attached to the ram rod. Impact speeds of 30, 50, 90, 130 and 150 m/sec were tried. The plasticity of the above-mentioned steels and of the VT3-1 Ti-alloy was unlimited, however cross-shaped cracks formed on the latter at 70-75% deformation. Hot forging of 40 mm diam, 28 mm long specimens with a very intricate impression from 45 steel and AMg-3 Al-alloy was carried out. The following conclusions are drawn: 1) Carbon and alloy structural steels and non-ferrous alloys had an unlimited degree of deformation, with high quality forgings. 2) Good filling of dies with intricate impressions was observed. 3) No increase in the plasticity of metals and alloys with low plastic properties had occured. 4) Gunpowder pile driver installations are recommended on account of their specific power, lightness, small dimensions and operational reliability. There are 4 figures, 1 table and 1 Soviet reference.

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L 10387-63 EWP(r)/EWT(m)/BDS--AEDC
ACCESSION NR: AP3000081 S/0182/63/000/005/0027/0031 55
54

AUTHOR: Kononenko, V. G.; Kushnarenko, S. G.; Kotel'nikov, V. I.; Rayzman, D. A.; Checheta, I. A.

TITLE: New impact testing machines for high-rate mechanical testing of materials

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 5, 1963, 27-31

TOPIC TAGS: impact testing machines, explosion-actuated machines, high deformation rates, wide temperature range, subzero tests

ABSTRACT: The Khar'kovskiy aviatsionnyy institut (Khar'kov Aviation Institute) has built and tested two new explosion-actuated machines for high-rate tension tests of various materials over a wide temperature range. The first, a telescopic-type machine, is capable of testing at deformation rates of 15 to 300 m/sec and temperatures of -196 to +1200C. The second, a lever-type machine, was successfully tested in the same temperature range at deformation rates of 10 to 50 m/sec. At higher deformation rates the telescopic-type machine gives better results than the lever type. In both, loading is effected by detonating

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L 10387-63
ACCESSION NR: AP3000081

a measured explosive charge. Strain 26 is measured by a wire strain gauge, registered on the screen of an oscillograph, and recorded photographically. In high-temperature tests the specimens are heated by a furnace which is quickly removed just before the explosive charge is detonated. In subzero testing the specimens are cooled in liquid nitrogen or a mixture of liquid nitrogen and benzene. Orig. art. has: 8 figures.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 17Jun63 ENCL: 00

SUB CODE: 00 NO REF SOV: 004 OTHER: 002

Card 2/2 ph/

STULIY, M., kand.tekhn.nauk; KUSHNARENKO, V., inzh.

Increasing concrete strength by brief early loading. Bud. mat. i konstr. 4 no.2:48-50 Mr-Ap '62. (MIRA 15:9)
(Concrete--Testing)

SOV/68-58-10-15/25

AUTHORS: Kushnarenko, V.S. and Shevchenko, L.I.

TITLE: A Rapid Method of Analysis of Phenolates Obtained by Dephenolising Effluent Waters (Uskorennyy metod analiza fenolyatov ot obesfenolivaniya stochnykh vod)

PERIODICAL: Koks i Khimiya, 1958, Nr 10, pp 47 - 50 (USSR)

ABSTRACT: A refractometric method of determining phenolates obtained by dephenolising effluent waters was developed. The analysis consists of the determination of alkali according to ChMTU 5734-57 and refractive index of the sample tested, with subsequent calculation of the content of phenols from the preliminary prepared table. The table of the dependence of the refractive index of phenolates on the content of phenols at various alkali concentrations should be prepared on the basis of data obtained by calculations from "empirical" refractive indices of phenols, alkalis and admixtures. At all changes in the process of dephenolising which could change the content of admixtures, the table should be

Card 1/2

SOV/68-58-10-15/25

A Rapid Method of Analysis of Phenolates Obtained by Dephenolising Effluent Waters

recalibrated. A comparison of a number of results obtained by the proposed method with those obtained by the conventional bromine method is given in Table 3. A satisfactory agreement (over 50% of the determinations within a range of ± 0.2%) is claimed. There are 3 tables.

ASSOCIATION: Gubakhinskiy koksokhimicheskiy zavod
(Gubakha Coking Works)

Card 2/2

NOVIKOV, V.N.; TOLSTOV, L.K.; SEREBRYAKOVA, Ye.K.; SOKOLOV, B.M.; Prinimal uchastiye: Melent'yev, Yu.I.; KAPGER, V.S.; ZORCHENKO, I.F.; KARPOV, K.F.; Kushnarenko, V.S.; SHEVCHENKO, L.I.; TRIFONOVA, N. I.; PODZHUNAS, V.A.; MASLITSKAYA, M.P.

Obtaining industrial naphthalene from the centrifugal naphthalene of the Gubakha Coke and Coal Chemicals Plant. Koks i khim. no.8: 35-38 '62. (MIRA 17:2)

1. Vostochnyy uglekhimicheskiy institut (for Novikov, Tolstov, Serebryakova). 2. Gubakhinskiy koksokhimicheskiy zavod (for Sokolov).

KUSHNARENKO, Ye., starshaya apparatchitsa

New rolls for corn-harvesting machinery. Izobr.i rats. no.12:19 D '58. (MIRA 11:12)

1. Dizel'stroitel'nyy zavod im. S.M.Kirova, g.Bol'shoy Tokmak, Zaporozhskoy oblasti.

(Harvesting machinery)

KUSHNARENKO, Ye.M., kand. tekhn. nauk

Problems of strength connected with tolerance changes in friction parts of rolling stock. Zhel. dor. transp. 40 no. 7:64-65 Jl.'58. (MIRA 11:7)

(Railroads--Rolling stock)
(Mechanical wear)

SHESTAKOV, V.N., kand.tekhn.nauk; KUSHNARENKO, Ye.M., kand.tekhn.nauk

Performance of axle box drivers with rubber-metal hinges. Vest. TSNII MPS 20 no.3:42-46 '61. (MIRA 14:5)
(Damping (Mechanics))

KUSHNAREV, A., podpolkovnik; FADEYEV, I., mayor.

The rifle company in a reconnaissance detachment during the attack.
Voen. vest. 35 no.8:45-52 Ag '55. (MIRA 11:3)
(Military reconnaissance)
(Attack and defense (Military science))

KUSHNAREV, A. L.

USSR/Metals
Steel Ingots
Metallurgy, Ferrous

Oct 48

"Influence of Gas Evolution on the Formation on a 6.5-Ton Ingot From Boiling Steel," Docent A. A. Bezdenezhnykh, V. F. Agapov, A. M. Bigeyev, I. A. Tkachenko, V. M. Mitryukovskiy, A. L. Kushnarev, Engineers, Magnitogorsk Mining Metal Inst, 7 pp

"Stal'" No 10

Use of new method for collecting gases evolved from a solidifying boiling steel ingot (under positive pressure) indicated inaccuracy of vast majority of results of foreign researchers, who worked with a vacuum and extracted gases from metal and fettling simultaneously, using containers for taking samples. Main constituent of gases evolved is carbon monoxide (90%), not hydrogen. Vigorous boiling of the metal in the mold causes vertical circulation, which improves ingot structure. Manganese has considerable effect on rate of gas evolution. When content exceeds 0.40%, amount of gas decreases and ingot structure deteriorates.

PA 19/49T78

BABIY, A.A.; STARSHINOV, B.N.; ONOPRIYENKO, V.P.; NEZHNOV, G.N.; KUSHNAREV, A.P.; KONAREVA, N.V.; Prinimali uchastiye: FLOROV, K.N.; BUDINSKIY, G.M.; VYSOCHIN, I.Ye.; OKOLELOV, A.N.; STRYGIN, V.I.; AFANAS'YEV, A.A.; SAPRONOV, B.V.

Desulfurizing and dephosphorizing cast iron in the ladle.
Sbor.trud. UNIIM no.11:90-95 '65.

(MIRA 18:11)

KUSHNAREV, A.S., inzh.; DATSENKO, N.V., inzh.

Experimental determination of the time of the stroke of elastic rods against a soil lump. Trakt. i sel'khozmash. no.7:22-23 Jl '65. (MIRA 18:7)

1. Melitopol'skiy institut mekhanizatsii sel'skogo khozyaystva.

KUSHNAREV, B.P., inzh.; **ANDREYEV**, V.M., prof., otv.red.; **ZHUKOVA**, V.I., starshiy inzh., red.; **NADEZHINA**, A.M., tekhn.red.

[Nonmetallic chemically-resistant coatings for equipment and structures in electroplating shops] Nemetallicheskie khimicheski stoikie pokrytiia apparatury i stroitel'nykh konstruktsii gal'vanicheskikh tsekhov. Leningrad, 1952. 15 p. (Informatsionno-tekhnicheskii listok, no.94(435)). (MIRA 14:6)

1. Leningradskiy Dom nauchno-tekhnicheskoy propagandy. 2. Proyektno-konstruktorskoye byuro tresta "Montazhkhimzashchita" (for Kushnarev). 3. Otdel novoy tekhnologii Leningradskogo Doma nauchno-tekhnicheskoy propagandy (for Zhukova).

(Protective coatings)

VAYNER, Yakov Vul'fovich; KUSHNAREV, B.P., inzh., retsenzent; VYACHESLAVOV, P.M., dots., kand. khim. nauk, red.; GRILIKHES, S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; SIMONOVSKIY, N.Z., red. izd-va; SOKOLOVA, L.V., tekhn. red.

[Equipment of electroplating shops] Oborudovanie gal'vanicheskikh tsekhov. Pod red. P.M. Viacheslavova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 77 p. (Bibliotechka gal'vanotekhnika, no.11). (MIRA 11:10)

(Electroplating)

VAYNER, Yakov Vul'fovich; KUSHNAREV, B.P., inzh., retsenzent; VYACHESLAVOV, P.M., kand.khim.nauk, dotsent, red.; YAMPOL'SKIY, A.M., inzh., red.vypuska; GRILIKHES, S.Ya., kand.tekhn.nauk, red.; FOMICHEV, A.G., red.izd-va; BARDINA, A.A., tekhn.red.

[Equipment of electroplating plants] Oborudovanie gal'vanicheskikh tsekhov. Izd.2., dop. i perer. Pod red. P.M.Viacheslavova. Moskva, Mashgiz, 1961. 93 p. (Bibliotechka gal'vanotekhnika, no.11) (MIRA 14:12)

(Electroplating--Equipment and supplies)

FROLOV, Mikhail Yermilovich; KUSHNAREV, B.P., red.

[Multiple-process automatic AG-18 unit for the electroplating of parts] Agregatnyi mnogoprotsessnyi avtomat dlia gal'vanicheskoi obrabotki detalei AG-18. Leningrad, 1964. 26 p. (MIRA 17:11)

MARINICH, P.Ye.; KUSHNAREV, D.A., red.

[Best grain crop varieties] Luchshie sorta zernovykh kul'tur.
Moskva, Glav. upr. sel'khoz. nauki, 1958. 152 p.
(MIRA 14:8)

(Grain--Varieties)

KUSHNAREV, D.A.

New staff members of the All-Union Academy of Agricultural Sciences. Agrobiologia 5:794-795 S-O '64.

(MIRA 17:11)

KUSHNAREV, P.F., inzh.

Electronic measurements of the thickness of pavement layers. Avt.dor. 27 no.12:9-10 D '64. (MIRA 18:2)

USSR/Engineering - Hydraulics, Canals Jun 51

"Removing Earth Mass by Explosions During Construction of Canals," A. A. Shurayev, D. M. Kushnarev, Engineers

"Gidrotekh Stroi" No 6, pp 11-16

Describes blasting as most efficient method for throwing ground material from proposed canal bed. Discusses combination of this method with hydraulic removal of ground and application of dynammon as more effective and economical explosive than amatol. Blasting costs are 25-30% above cost of

199T50

USSR/Engineering - Hydraulics, Canals (Contd) Jun 51

excavator use, but method is recommended in certain cases, since it requires considerably less manpower.

199T50

1. KUSHNAREV, D. M.

2. USSR (600)

4. Blasting

7. Mechanization of operations in the construction of canals and trenches by means of ejection blasting. Mekh. stroi. 9, no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

KULEBAEV, D. N.

"Influence of Explosion Upon the Physical Properties of Grounds," Gidrotekhn. Stro-vo, No 2, pp 12-15, 1953

The author clarifies the results of laboratory and field investigations on the study of the influence of explosions upon the physical properties of clayey grounds (loam soil containing sand and 25-30% clay). The explosions were produced by means of concentrated charge of ammonite 55 kilograms in weight, placed at a depth of 1.6 meter. Also studied was filtration from a reservoir formed by means of massive explosions by way of ejection of earth. The laboratory investigations point to significant changes in the most important physical properties of grounds both at depths and also at the sides from the charge: the volumetric weight is increase 7-8%; porosity and moisture is decreased correspondingly 8-11% and 3-6%. (RZhGeol, No 4, 1955)

Sum. No. 681, 7 Oct 55

KUSHNAREV, D. M., FEDOROV, I. S.

"Packing (Settling) and Breakdown of Bound Grounds under the Influence of Explosions"

Gidrotekhn. str-vo, No 11, 25-29, 1953

The authors expound the results of an investigation into the influence exerted by an explosion upon the structural properties of ground. During an explosion the ejection of the elastic gases of the explosive causes the packing of the ground located under the explosive and the drawing fo the ground toward the side of the zone of the broken structure of the ground. In the experiments a bore pit in clayey ground was used, 1.2 x 1.2 meters in cross section and 2.1 meters deep. (RZhGeol, No 3, 1954)

SO: W-31187, 8 Mar 55

KUSHNAREV, D.M., kandidat tekhnicheskikh nauk.

Dynamics of the perviousness to water of soil in pits formed by blasting. Gidr.stroi. 23 no.7:17-20 '54. (MLRA 7:11)
(Soil mechanics)

KUSHNAREV, D.M., kandidat tekhnicheskikh nauk; YARUSHIN, M.I., inzhener.

Control of water filtration from channels by discharge of explosives.
Gidr.stroi.25 no.6:33-36 Jl '56. (MLRA 9:9)
(Soil percolation) (Soil stabilization)

KUSHNAREV, D.I., kandidat tekhnicheskikh nauk.

Results of core charge blasting with short-delay action electric detonators. Gor.zhur. no.6:34-37 Je '57. (MLRA 10:8)

1.Gosudarstvennyy nauchno-issledovatel'skiy institut gorno-khimicheskogo syr'ya.

(Blasting)

KUSHNAREV, D.M., kandidat tekhnicheskikh nauk; PANASENKO, A.S., kandidat tekhnicheskikh nauk.

Over-all mechanization of canal construction. Mekh.trud.rab. 11 no.5:37-40 My '57. (MIRA 10:7)
(Canals) (Dredging machinery)

LUSHNAREV, D.M., kand.tekhn.nauk; KHRULEV, I.Z., inzh.

Short delay electric detonators. Energ.stroi. no.6:100-103 '58.
(MIRA 12:11)

(Detonators)

SOV-127-58-8-16/27

AUTHOR: Kushnarev, D.M., Candidate of Technical Sciences

TITLE: Result of Testing New Electric Igniters (Rezul'taty ispytaniy novykh elektrozazhigatel'nykh trubok)

PERIODICAL: Gornyy zhurnal, 1958, Nr 8, pp 67-68 (USSR)

ABSTRACT: The author describes new electric igniters EZT-2 for underground blasting devised by the Gosudarstvennyy institut gorno-khimicheskogo syr'ya (The State Institute of Mined Chemical Raw Material). It consists of a copper cartridge in one side of which a fuse is fixed, and on the other side an electro-igniter. The fuse contacts an ignition point in the cartridge and another igniter is attached in the middle of the cartridge. The electro-igniter contains a bridge made from a nichrome, 0.03 mm-thick wire. The detonator is attached on the other end of the fuse. These igniters were tested 1,600 times at the Solikamsk mine and gave excellent results.

ASSOCIATION: Gosudarstvennyy Institut Gorno-Khimicheskogo syr'ya (The State Institute of Mined Chemical Raw Materials)

1. Electric igniters--Test results 2. Blasting--Equipment

Card 1/1

SOV/127-59-1-16/26

AUTHOR: Kushnarev, D. M., Candidate of Technical Sciences

TITLE: Short-Delayed Blasting in Potassium Mines (Korotkozamedlennoye vzryvaniye na kaliynykh rudnikakh)

PERIODICAL: Gornyy zhurnal 1959, Nr 1, pp 55-58 (USSR)

ABSTRACT: Short-delayed blasting in Solikamsk and Berezniki Potassium Combines is here studied. Sketches of the blast hole arrangement, and the consecutive order of blasting are presented. Results of the fire and blastings in a rock salt layer are compared in table 1; results of instant and electric blastings are compared in table 2. Table 3 illustrates the results of delayed and short-delayed electric blastings in a sylvinite layer. There are 3 tables, 3 diagrams, 1 graph and 2 references, one of which is Soviet and 1 German.

ASSOCIATION: Gosydarstvennyy institute gorno-khimicheskogo syr'ya, g. Lyubertsy (The State Institute of Mining-Chemical Raw Materials, **Lyubertsy**).

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SOV/118-59-3-19/22

28(1)

AUTHOR: Kushnarev, D.M., Candidate of Technical Sciences

TITLE: Effectiveness of Mining by Means of Large Diameter Boreholes (Effektivnost' otboyki skvazhinami bol'shogo diametra)

PERIODICAL: Mekhanizatsiya i avtomatisatsiya proizvodstva, 1959, Nr 3, pp 56-57 (USSR)

ABSTRACT: Recently, the method of drilling boreholes by special drilling machines has widely been employed in GDR potassium plants. The new method differs from the old one by the fact that one borehole with a diameter of 420 mm is drilled, instead of four smaller ones. The whole method is analyzed in detail. For the drilling of holes in GDR potassium mines, two types of drilling machines are used; machine type SSV 115, manufactured by Salzgittermaschinen and the type of drilling machine produced in the USSR by the factory "Konotop," and designed for drilling large diameter horizontal holes. Experience in the potassium mines showed, that the application of

Card 1/2

SOV/118-59-3-19/22

Effectiveness of Mining by Means of Large Diameter Boreholes

the drilling machine for drilling such holes improves the technical-economic coefficient of preparatory and stoping mining. Compared with the usual method it enables increasing the forward motion speed of mining of one shift by 1.4 times, the output of potassium for one shift by 1.7 times, and further greatly decreases the expenses for explosives needed for 1m 0 hole. There are 1 photograph, 2 diagrams and 1 table.

Card 2/2

2(1)

SOV/64-59-5-21/28

AUTHORS: Degtyarev, A. N., Kushnarev, D. M.

TITLE: Experimental Application of Millisecond Explosions in the Mining Industry

PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 5, pp 445 - 446 (USSR)

ABSTRACT: The explosive charges (with instantaneous or delayed explosion), as applied nowadays, exhibit several disadvantages. A more complete explosion may be attained by using millisecond explosions as was shown by **experiments** in the mines Kara Tau, Solikamsk and Berezniki (potash mines) and in the open-work mining in the apatite mine of the Kombinat Apatit. The new method consists of explosions that follow each other with a retardation of milliseconds, so that additional planes in the rock are exposed. The interval of retardation must be selected in that way, that the explosions take place in the moment of maximum strain in the rock or at the beginning of crack formation. Films taken showed, that the interval of retardation between the explosion sequences ought to be about 25-40 milliseconds. A remarkable deviation of this value leads to normally retarted or instantaneous explosions. An electro-explosive charge ED-KZ (Fig)

Card 1/2

Experimental Application of Millisecond Explosions in the Mining Industry SOV/64-59-5-21/28

with short retarded action is manufactured by the domestic industry, to carry out described explosions. The explosive charges are produced for intervals of retardation of 25 milliseconds (in stages of 25, 5o, 75, 1oo, 15o and 25o milliseconds). An increase of mining capacity of 10-15% for open-work mining, and, under certain conditions, an increase of 15-20% for underground mining, was attained by the application of the new explosive charges. For work in shifted or cracked rocks (Kombinat "Kara Tau" and in some parts of the apatite mine) a possible decrease of mining capacity is to be expected. There is 1 figure.

ASSOCIATION: Gosudarstvennyy institut gornokhimicheskogo syr'ya (State Institute of Chemical Raw Materials for Mining)

Card 2/2

KUSHNAREV, D.M., kand.tekhn.nauk; BARTNOVSKIY, V.V.

Increasing the productive capacity of an excavator in short-delay blasting. Khim.prom. no.8:686-688 D '60. (MIRA 13:12)
(Mining engineering) (Excavation)

SHLYAMIN, A.I., kand.tekhn.nauk; DUBOVA, T.N., kand.tekhn.nauk;
Prinimali uchastiye: MADATOV, N.M., inzh.; TREPOV, P.V., inzh.;
KUSHNAREV, D.M., kand.tekhn.nauk; KOGAN, Yu.A., inzh.

Semiautomatic underwater welding. Svar. proizv. no.7:25-28
Jl '61. (MIRA 14:6)
(Underwater welding and cutting)

KUSHNAREV, D.M., kand.tekhn.nauk; BARTNOVSKIY, V.V., gornyy inzh.

Increasing the productivity of an excavator in short-delay blasting. Vzryv. delo no.47/4:93-99 '61. (MIRA 15:2)

1. Gosudarstvennyy institut gornokhimicheskogo syr'ya.
(Excavating machinery) (Blasting)

KUSHNAREV, D. M.

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PHASE I BOOK EXPLOITATION SOV/6098

Assonov, V. A., and L. A. Paporotskiy, Resp. Eds.

Novoye v sredstvakh i sposobakh vzryvaniya (New Developments in Blasting Means and Methods). Moscow, Gosgortekhizdat, 1962. 124 p. (Series: Vzryvnoye delo; Sbornik no. 48/5) Errata slip inserted. 3000 copies printed.

Sponsoring Agency: Nauchno-tekhnicheskoye gornoye obshchestvo.

Ed. of Publishing House: A. Ya. Koston'yan; Tech. Eds.: L. I. Minsker and G. M. Il'inskaya.

PURPOSE: The book is intended for mining engineers, workers in scientific research and planning organizations, and also for teachers and students of mining and technical schools.

COVERAGE: This collection of articles describes new blasting means and methods, means of protecting electric detonators from stray currents, and improved methods of short-delay detonation.

Card 1/6

New Developments in Blasting Means (Cont.) SOV/6098

Azarkovich, A. Ye. Connecting Electric Detonators in Parallel When Detonating With A Condenser 44

Strausman, R. Ya. Network Layouts When Blasting With a Current of Limited Capacity 51

Azarkovich, V. Ye. Doubling Electric Detonating Networks [With Backup Network] 59

Ozernoy, M. I. Protecting Electric Detonators From Premature Firing by Stray Currents 66

Ruchkin, N. M., and R. Ya. Strausman. Electric Detonating in Stray-Current Danger Zones 87

Kushnarev, D. M., and V. P. Pavlov. Investigation of the Danger of Stray Currents When Using Electric Detonators With Nichrome Incandescent Bridges 92

KUSHNAREV, D.M., kand.tekhn.nauk; PAVLOV, V.P., inzh.

Explosives with the simplest composition. Shakht.stroi. 6 no.11:
24-25 N '62. (MIRA 15:12)

1. Institut gornokhimicheskogo syr'ya.
(Explosives)

KUSHNAREV, D.M., kand.tekhn.nauk; PAVLOV, V.P., inzh.; ZEL'TSER, Yu.I.;
CHEREPANOV, G.S.

Industrial testing of a machine for charging a hole with "igdanit."
Gor. zhur. no.9:46-47 S '62. (MIRA 15:9)

1. Gosudarstvennyy institut gornokhimicheskogo syr'ya (for Kuzhnarev, Pavlov). 2. Gosudarstvennyy proyektno-konstruktorskiy institut avtomatizatsii rabot v ugol'noy promyshlennosti (for Zel'tser). 3. Institut gornogo dela im. Skochinskogo (for Cherepanov).

(Explosives) (Blasting—Equipment and supplies)

KUSHNAREV, D.M.; PAVLOV, V.P.

Study of the danger of stray currents in using electric detonators with nichrome filament bridges. Vzryv. delo no.48/5:92-98 '62. (MIRA 15:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gornokhimicheskogo syr'ya (GIGKhS).

(Blasting)

KUSHNAREV, D.M., kand. tekhn. nauk

Short-delay detonation of charges separated by air spaces in open-pit workings of the mining, ore dressing and chemical processing industries. Vzryv. delo no.51/8:192-199 '63. (MIRA 16:6)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gornokhimicheskogo syr'ya.

(Blasting)

KUSHNAREV, D.M., kand. tekhn. nauk; PAVLOV, V.P., gornyy inzh.

Using igdanite and water-containing explosives in strip mines of the "Apatit" Combine. Vzryv. delo no.54/11:356-362 '64. (MIRA 17:9)

1. Gosudarstvennyy institut gornokhimicheskogo syr'ya.

L 60931-65

ACCESSION NR: AR5017399

UR/0081/65/000/010/N095/N095

18
B

SOURCE: Ref. zh. Khimiya, Abs. 10N582

AUTHOR: Andreichev, A. N.; Kushnarev, D. M.
44,55 44,55

TITLE: On simple explosives 5,44,55

CITED SOURCE: Bezopasnost' truda v prom-sti, v. 6, no. 8, 1964, 4-6

TOPIC TAGS: explosive, igdanite, aquatol, granulite, zernogonulite, ammonite

TRANSLATION: A comparison is given of explosive properties, the amount of toxic gases in the products of an explosion, and the cost of blasting operations using simple explosives: igdanites, aquatol, granulite AS and zernogonulite 80/20, and ammonite No 6. The authors propose to allow the use of simple explosives at mining-chemical enterprises with the exception of mines which are dangerous because of gas and dust. V. Zhilin

SUB CODE: WA

ENCL: 00

dm

Card 1/1

KUSHNAREV, I. P.

USSR/Geology - Fissures Sep/Oct 49
Quartz

PA 3/50T43

"Conditions Surrounding the Formation of Fissures Enclosing Ladder Veins of the Berezovskiy Deposit in the Urals," I. P. Kushnarev, 10 pp

"Iz Ak Nauk SSSR, Ser Geol" No 5

Discusses mechanism of formation of fault fissures which enclose ladder veins in dikes of the Berezovskiy deposit. Credits pre-vein tectonic clays which develop along contacts of dikes with a major role in formation of these fissures. Presumes that they serve as a "lubricant" in deformations. By analyzing factual data, explains peculiarities in position and structure of quartz veins and concludes that forces were exerted in latitudinal tangential direction in premining deformation period.

3/50T43

KUSHNAREV, I. P.

PA 241T50

USSR/Geophysics - Cleavage Nov/Dec 52

"The Term 'Cleavage'", L. I. Lukin and I. P. Kushnarev

"Iz Ak Nauk SSSR, Ser Geol" No 6, pp 118-121

A brief report on the order of a discussion of the term "cleavage". Cleavage is classified as primary and secondary as determined from meanings given the term by such prominent geologists as M. P. Billings, Ch. K. Lizs, B. Willis, M. A. Usov, C. K. Leith and S. K. Van-Hise.

241T50

Kushnarev, I.P.

LUKIN, L.I.; KUSHNAREV, I.P.; CHERNYSHEV, V.F.

Frequency of the course of differently aged interstitial systems. (MIRA 8:11)
Trudy Inst.geol.nauk no.162:25-35 '55.
(Ore deposits)

Kushnarev I.P.

KUSHNAREV,I.P.

Characteristics of fracture tectonics of two granitoid massifs of different ages. Trudy Inst.geol.nauk no.162:94-108 '55.
(Geology, Structural) (MLRA 8:11)

AUTHORS: Kushnarev, I.P., and Kazhdan, A.B. 11-58-5-8/16

TITLE: On Stratigraphy of Effusive Suitesof the Middle- and Upper Paleozcic of the Southwestern Spurs of Northern Tyan'-Shan'. (K stratigrafii effuzivnykh svit srednego i verkhnego paleozoya yugo-zapadnykh otrogov Severnogo Tyan'-Shanya)

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ABSTRACT: In the light of latest surveys, the authors of this article consider the questions of the stratigraphy of the Middle- and Upper Paleozoyan effusive deposits of the south-western spurs of Northern Tyan-Shan and propose changes in the scheme elaborated by N.P. Vasil'kovskiy, whose book [Ref. 4] is considered by all geologist as a valuable contribution. According to N.P. Vasil'kovskiy, the stratigraphic scheme of the Upper-Paleozoy begins from the columnar section of sedimentary-effusive rocks deposited unevenly on the limestone of the Upper-Visean stage. This scheme is as follows (taken from the bottom up): Lower Carboniferous Period: 1) Arkut-Say effusive suite, magnitude 200 m; 2) Kyzyl-Su effusive suite, magnitude about 1,150 m; 3) Uya effusive-sedimentary suite, magnitude 1,000 m. Middle Carboni-

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ferous Period: 4) Mynbulak effusive suite, magnitude more than 3,600 m. Upper Carboniferous Period: 5) Akcha effusive suite, magnitude 2,500 m; 6) Sary-Syun effusive-sedimentary suite, magnitude 500 m; 7)Oya-Say effusive suite, magnitude 2,500 m; 8) Karzhan-Say effusive-sedimentary suite, magnitude approximately 140 m. The last four suites are united into the Aktash volcanogenous complex. Lower Permian Period: 9) Shurab-Say effusive-sedimentary suite, magnitude approximately 1,500 m. Supposable Upper Permian Period: 10) Ravash effusive-sedimentary suite, magnitude approximately 1,200 m. Supposable Lower Triassic Period: 11) Kyzyl-Nura effusive suite, magnitude approximately 1,000 m. The three last suites are united into the Aksakata effusive complex. Recent and more detailed studies showed that: The Arkut-Say effusive suite cannot be considered as an independent suite, because the containing porfyrites are only a facial variety of the rocks of the lower part of Uya suite. The Kyzyl-Su effusive-sedimentary suite, in the light of latest surveys, is composed of layers of rocks which could be traced to the basin

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of the Oya river and are really the continuation of the layers composing the Oya-Say suite. N.P. Vasil'kovskiy, in his latest article [Ref. 5], does not consider the Kyzyl-Su suite as an independent unit, but that the Uya effusive-sedimentary suite and the Mynbulak effusive suite are parts of the same suite, as has been stated recently by many geologists working in this region. The deposits containing Namurian fauna form the lower part of the suite and their magnitude is from 50-70 m to 450 m. This stratum is covered with rocks of various formations. Their general magnitude in the suite reaches 2,000 m. Both suites are of similar structure. The Uya and the Mynbulak effusive suites belong most likely to the Middle Carboniferous Period. Naumurian faunal deposits were found in the lower part of the suite. The upper part was of much greater magnitude. The Karzhan-Say effusive-sedimentary suite is of little importance and occupies an area of a few sq km. Its columnar section is identical with the section of the upper part of the Oya-Say suite. It could be said, that this suite forms a part of the Oya-Say suite. In his latest work,

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N.P. Vasil'kovskiy [Ref. 5] comes to the same conclusion. The Ravash suite has been surveyed in detail by many geologists and it was found, that the lower basal level of the Ravash suite corresponds to third effusive-sedimentary block of rocks of the Shurab-Say suite. This level was later traced far beyond the limits of the Ravash suite. As a result, a constant conformable occurrence of this block on the second block of Shurab-Say suite only was ascertained. Angular or other nonconformities between the second and third blocks of rocks were not found, which, according to N.P. Vasil'kovskiy, formed the boundary between the Ravash and Shurab-Say suites. More geologic studies showed that there are no reasons to isolate the Ravash suite as a separate stratigraphic unit. Taking into consideration the new factual material on the stratigraphy of the sedimentary-effusive deposits of the Middle- and Upper Paleozoy of the south-western spurs of Northern Tyan-Shan, the authors conclude that the stratigraphic scheme propsosed by N.P. Vasil'kovskiy must be changed. The

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authors eliminated 5 out of 11 suites from this scheme and set up the scheme as follows: The summit of Lower Carboniferous Period and Middle Carboniferous Period: 1) the Mynbulak (or Uya) suite - Namurian Stage of Lower Carboniferous and Middle Carboniferous Period; Upper Carboniferous Period: 2) Akcha suite (probably the upper part of Middle Carboniferous Period - Lower part of Upper Carboniferous Period; 3) Sary-Syun suite (probably the middle of the Upper Carboniferous Period); 4) Oya-Say suite (Upper Carboniferous Period); Lower Permian Period: 5) Shurab-Say suite; Supposable Upper Permian Period: 6) Kyzyl-Nura suite.
There is 1 figure and 13 Soviet references.

ASSOCIATION: Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii, Moscow Geological Institute of Ore Deposits, Petrography, Mineralogy and Geochemistry, Moscow)

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Kushnarev, I.P.

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PURPOSE: This volume is intended for scientists, engineers, physicians, and biologists working in the production and peaceful application of atomic energy; for professors and students of schools of higher technical education where the subject is taught; and for people interested in atomic science and technology.

COVERAGE: This is volume 3 of a 6-volume set of reports on atomic energy, presented by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy, held in Geneva from September 1 to 13, 1958. Volume 3 consists of two parts. The first part, edited by A.I. Zubov, is devoted to geology, prospecting, concentration and processing of nuclear source material. The second part, edited by O.L. Zverev, includes 27 reports on metallurgy, metallography, processing technology of nuclear fuels and reactor metals, and neutron irradiation effects on metals. The titles of the individual papers in most cases correspond word for word with those in the official English language edition on the Conference proceedings. See SOV/2081 for the titles of the other volumes of the set.

Koshkova, Ye.V., Ye.G. Razumnaya, M.B. Serebryakova, and O.V. [illegible]. The Role of Sorption in the Process of Uranium Concentration in Sedimentary Rocks (Report No. 2059) 13

Rafal'skiy, R.P. The Experimental Investigation of the Conditions of Uranium Transport and Deposition by Hydrothermal Solutions (Report No. 2057) 33

Nekrasova, Z.A. Form Occurrence of Uranium in Some Coals (Report No. 2002) 58

Gritsayenko, G.S., L.N. Belova, R.V. Getseva, and K.T. Savel'yeva. Mineralogical Types of Oxidation Zones of Hydrothermal Uranium and Uranium Sulfide Deposits in the USSR (Report No. 2155) 69

Kushnarev, I.P., L.I. Lukin, B.L. Rybalov, Ye. P. Sonyushkin, and [illegible]. General Laws Governing the Localization of Uranium Mineralization and the Basic Types of Structures of Hydrothermal Uranium Deposits (Report No. 2492) 85

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